

FIG.1

Diagram illustrating a color filter array (12) structure. The array consists of a sequence of subpixels (R, Gb, R, Gb, R, Gb) and vertical red (VR) and blue (BR) lines. A source S is connected to the R and Gb subpixels. A horizontal line HR is at the bottom.

← R Gr R Gr R Gr Gb B Gb B Gb B

FIG.3

FIG.5

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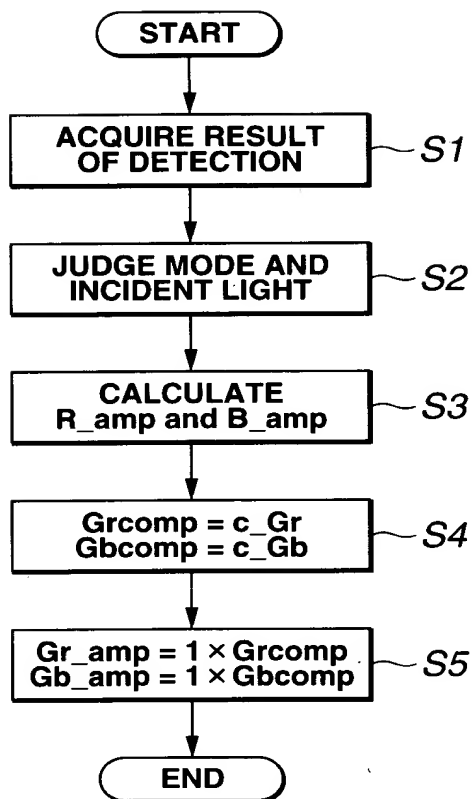


FIG.6

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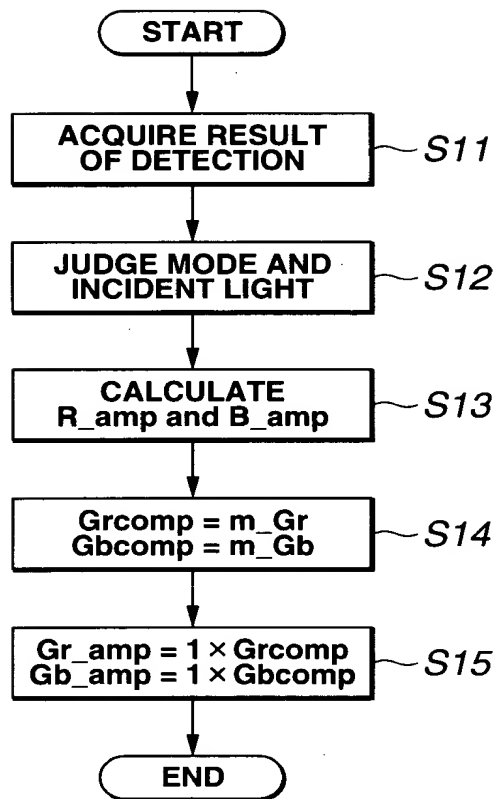


FIG.7

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graph TD
    Start([START OF COMPENSATION FACTOR DETERMINING ROUTINE]) --> S21[ACQUIRE RESULT OF DETECTION]
    S21 --> S22["m_Gr = G/Gr  
m_Gb = G/Gb"]
    S22 --> S23[WRITE m_Gr AND m_Gb TO MEMORY]
    S23 --> End([END])

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graph TD
    START([START]) --> S31[ACQUIRE RESULT OF DETECTION]
    S31 --> S32[JUDGE MODE AND INCIDENT LIGHT]
    S32 --> S33[CALCULATE R_amp and B_amp]
    S33 --> S34["Grcomp = G/Gr  
Gbcomp = G/Gb"]
    S34 --> S35[APPLY LPF TO Grcomp AND Gbcomp]
    S35 --> S36[LIMIT Grcomp AND Gbcomp]
    S36 --> S37["Gr_amp = 1 × Grcomp  
Gb_amp = 1 × Gbcomp"]
    S37 --> END([END])

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FIG.9